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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,741	01/22/2002		Michael Kuechel	0250/US	5484
30333	7590	04/19/2004	EXAMINER		INER
FRANCIS J. CAUFIELD 6 APOLLO CIRCLE				LYONS, MICHAEL A	
LEXINGTON, MA 02421-7025		02421-7025		ART UNIT	PAPER NUMBER
				2877	

Please find below and/or attached an Office communication concerning this application or proceeding.

DATE MAILED: 04/19/2004

		μ				
	Application No.	Applicant(s)				
	10/053,741	KUECHEL, MICHAEL				
Office Action Summary	Examiner	Art Unit				
	Michael A. Lyons	2877				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the (correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period versilized to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron a cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) ☐ Responsive to communication(s) filed on <u>06 February 2004</u> . 2a) ☐ This action is FINAL . 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) □ Claim(s) 1-88 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1,25,53,70 and 85-88 is/are rejected. 7) □ Claim(s) 2-24,26-52,54-69 and 71-84 is/are observed. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 22 January 2002 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 2015.	: a)⊠ accepted or b)□ objecte drawing(s) be held in abeyance. So tion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	tion No /ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summal Paper No(s)/Mail I 5) Notice of Informal 6) Other:					

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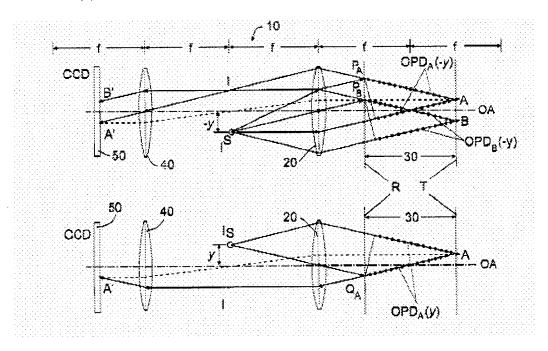
DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).



Claims 1, 25, 85, and 86 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 4, 5, 6, and 8 of U.S. Patent No. 6,643,024. Although the conflicting claims are not identical, they are not patentably distinct from each other because while the patent fails to claim the

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"substantially identical optical path differences" of the present application (these substantially identical optical path differences are only in the specification of the patent), the claims in the patent are broader in scope than the present claims. The patented claims cover interfering wavefronts and directing radiation to an interferometer from at least two different locations. Since no explicit reference is made in the claim to any sort of quantification of a path difference within the interferometer, and since path differences are necessary to generate interference, the patented claims can anticipate any set of path differences, including the identical optical path differences as claimed in the present case.

Claims 53, 70, 87, and 88 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 10 and 13 of U.S. Patent No. 6,643,024. Although the conflicting claims are not identical, they are not patentably distinct from each other because while the patent fails to claim the "substantially identical optical path differences" of the present application (these substantially identical optical path differences are only in the specification of the patent), the claims in the patent are broader in scope than the present claims. The patented claims cover interfering wavefronts and directing radiation to an interferometer from at least two different locations. Since no explicit reference is made in the claim to any sort of quantification of a path difference within the interferometer, and since path differences are necessary to generate interference, the patented claims can anticipate any set of path differences, including the identical optical path differences as claimed in the present case.

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Allowable Subject Matter

Claims 2-24, 26-52, 54-69, and 71-84 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed February 6, 2004 have been fully considered but they are not persuasive. The examiner appreciates the chart filed by the applicant comparing the claims in the present application with the claims in the Deck et al. patent. However, the rejection still stands. First off, the arguments regarding the prosecution of the previous application and the patent right dates are moot, as they do not deal with the claims of each case that form the double patenting rejection.

Additionally, the claims stand because the claims in the patent, if treated in a traditional, non-double patenting situation, would still be used to reject the claims in the present case. The applicant argued that the present claims refer, in some cases, to an "illumination" apparatus and method, while the claims in the patent refer to an "interferometric" apparatus and method. An interferometer uses light reflecting or transmitting through a test object. The light has to illuminate the test object for the measurement to occur, making the interferometer a type of illumination device.

Furthermore, as discussed in the rejection above, while the patented claims disclose directing radiation on the object to be measured from "at least two different locations", the present claims merely state that radiation is directed on the object from "different locations". Since different locations refers to plural locations, radiation from

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the device in the present application has to be directed from two or more (at least two0 different locations to the test object.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael A. Lyons whose telephone number is 571-272-2420. The examiner can normally be reached on Monday thru Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MAL April 6, 2004

Samuel A. Turner Primary Examiner